

# Big Microscope Foldable – Answer Key

What you expect your students to produce will depend on their grade and academic level.

Microscope Parts	Function
1. <b> Eyepiece/Ocular Lens</b>	The eyepiece contains the ocular lens which is the magnifying lens that you look through. It typically has 10X magnification.
2. <b> Body Tube/Head</b>	Connects the eyepiece to the objective lenses.
3. <b> Rotating Nosepiece</b>	Holds the objective lenses and can be rotated to switch between the different lenses.
4. <b> Objective Lenses</b>	Additional lenses that increase the magnification. Typically there are 3 lenses at low power magnification (4X), medium power magnification (10X) and high power magnification (40X).
5. <b> Arm</b>	Connects the lens system to the stage and base. When carrying the microscope, one hand should always hold the arm (and the other hand should support the base).
6. <b> Stage</b>	Supports the slide that contains the specimen. Has a hole in its center to allow the light from the illuminator to reach the specimen.
7. <b> Stage Clips</b>	Holds the specimen slide in place to prevent it from moving.
8. <b> Diaphragm</b>	Located under the stage, this controls the size of an aperture (hole) which determines the amount of light that reaches the specimen from the illuminator.
9. <b> Condenser Lens</b>	Located under the stage, this focuses the light from the illuminator onto the specimen.
10. <b> Coarse Adjustment Knob</b>	Moves the stage up and down for initial focusing of the specimen. It is never to be used with the high power objective lens.
11. <b> Fine Adjustment Knob</b>	Moves the stage slightly to fine tune the focusing of the specimen.
12. <b> Base</b>	Supports the microscope. When carrying the microscope, one hand should always support the base (while the other hand holds the arm).
13. <b> Illuminator/Light Source</b>	Produces light and projects it upwards through the hole in the stage, the specimen and the objective lens.
14. <b> Power Switch</b>	Turns the microscope light on and off.



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